

FIG. 1

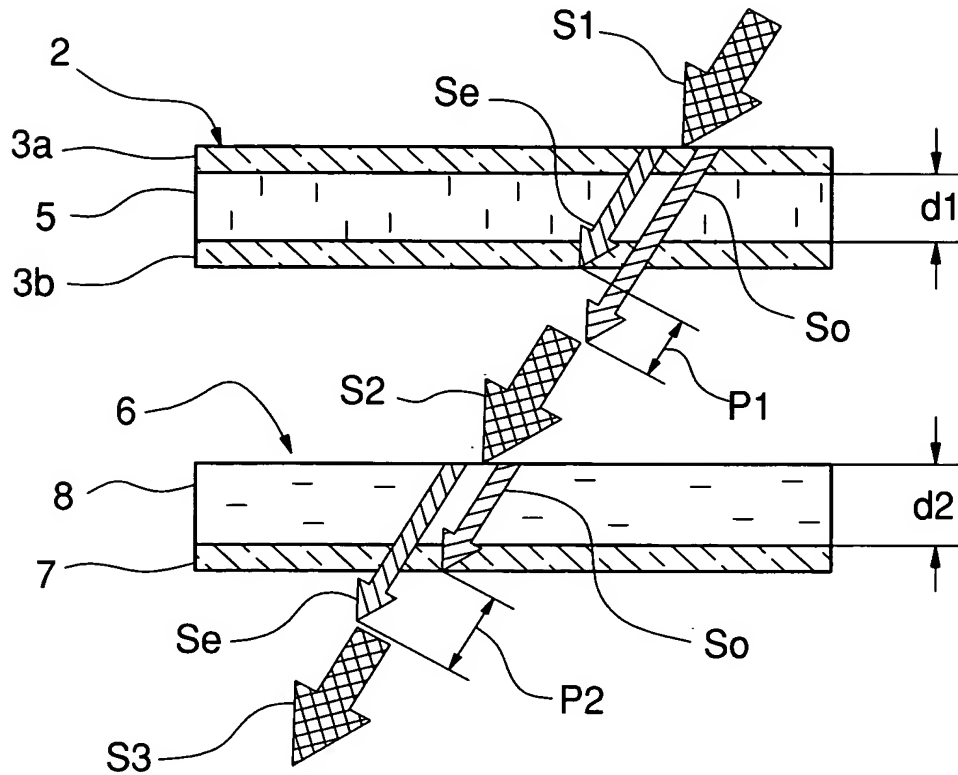


FIG. 2

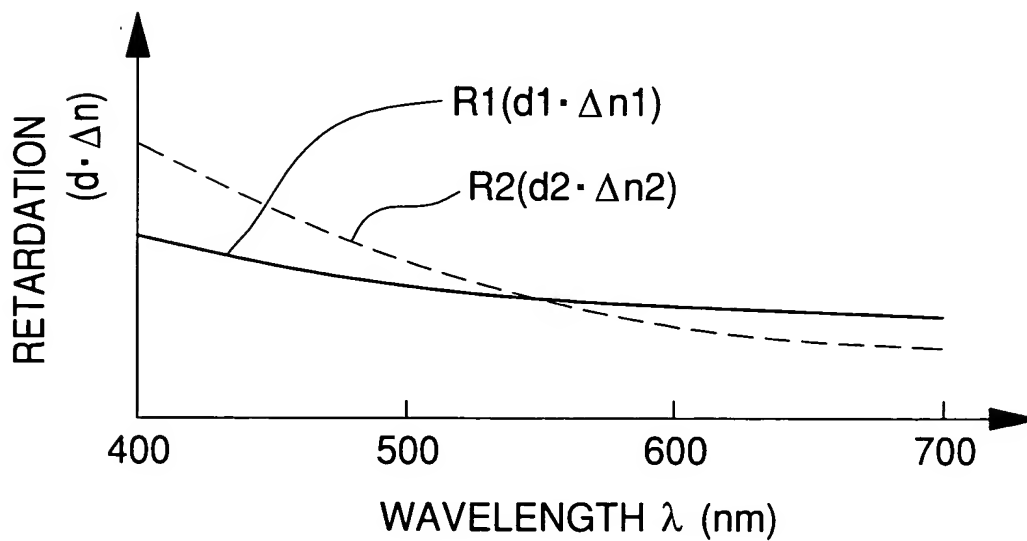


FIG. 3

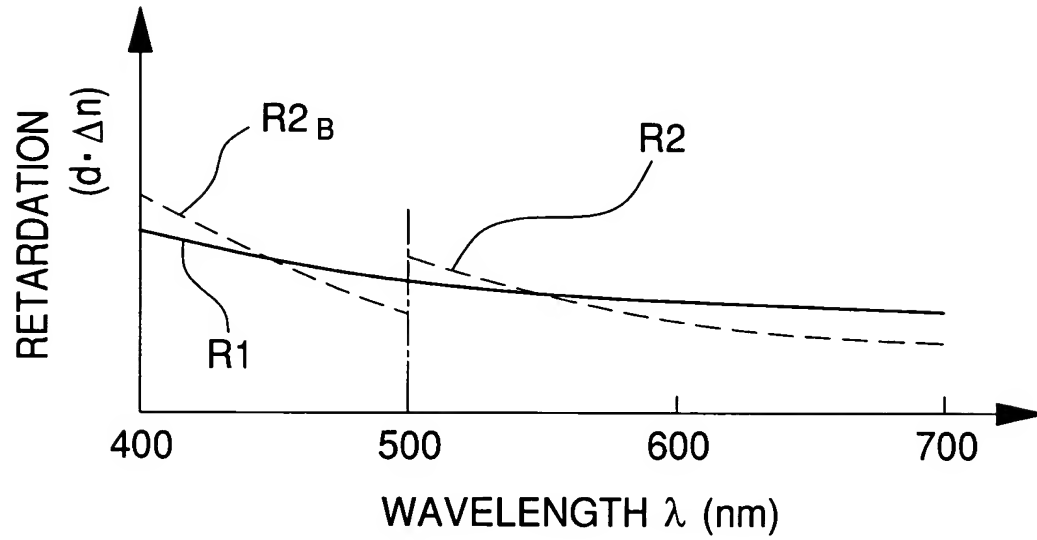


FIG. 4

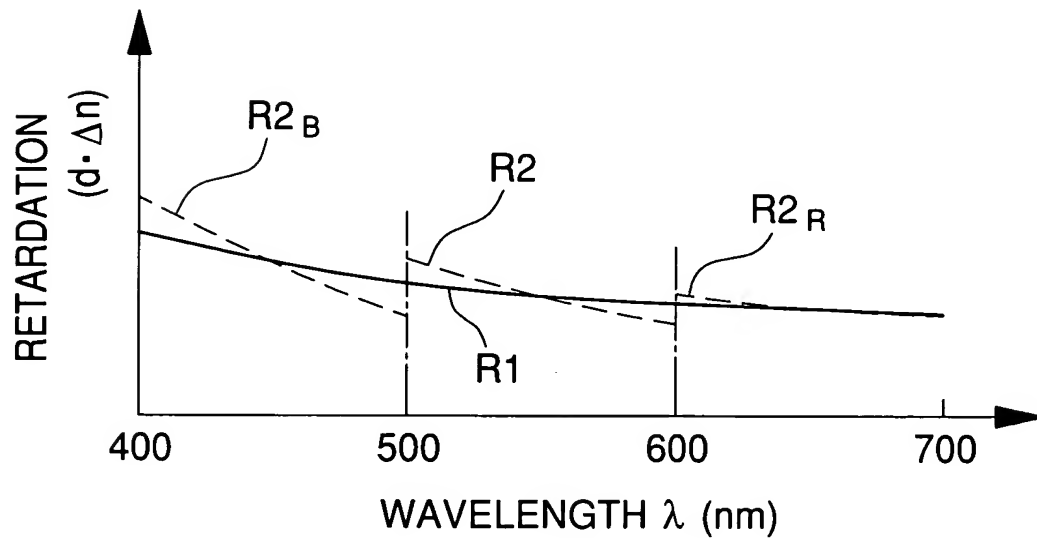


FIG. 5

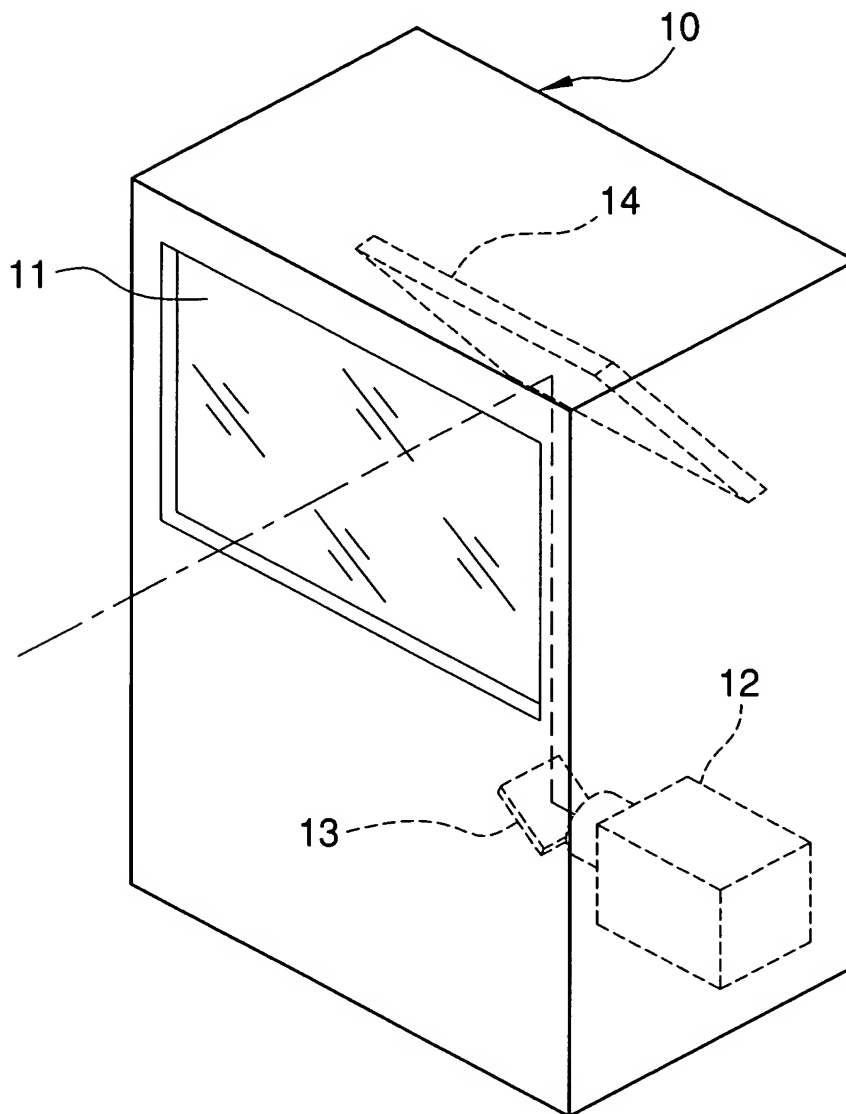


FIG. 6

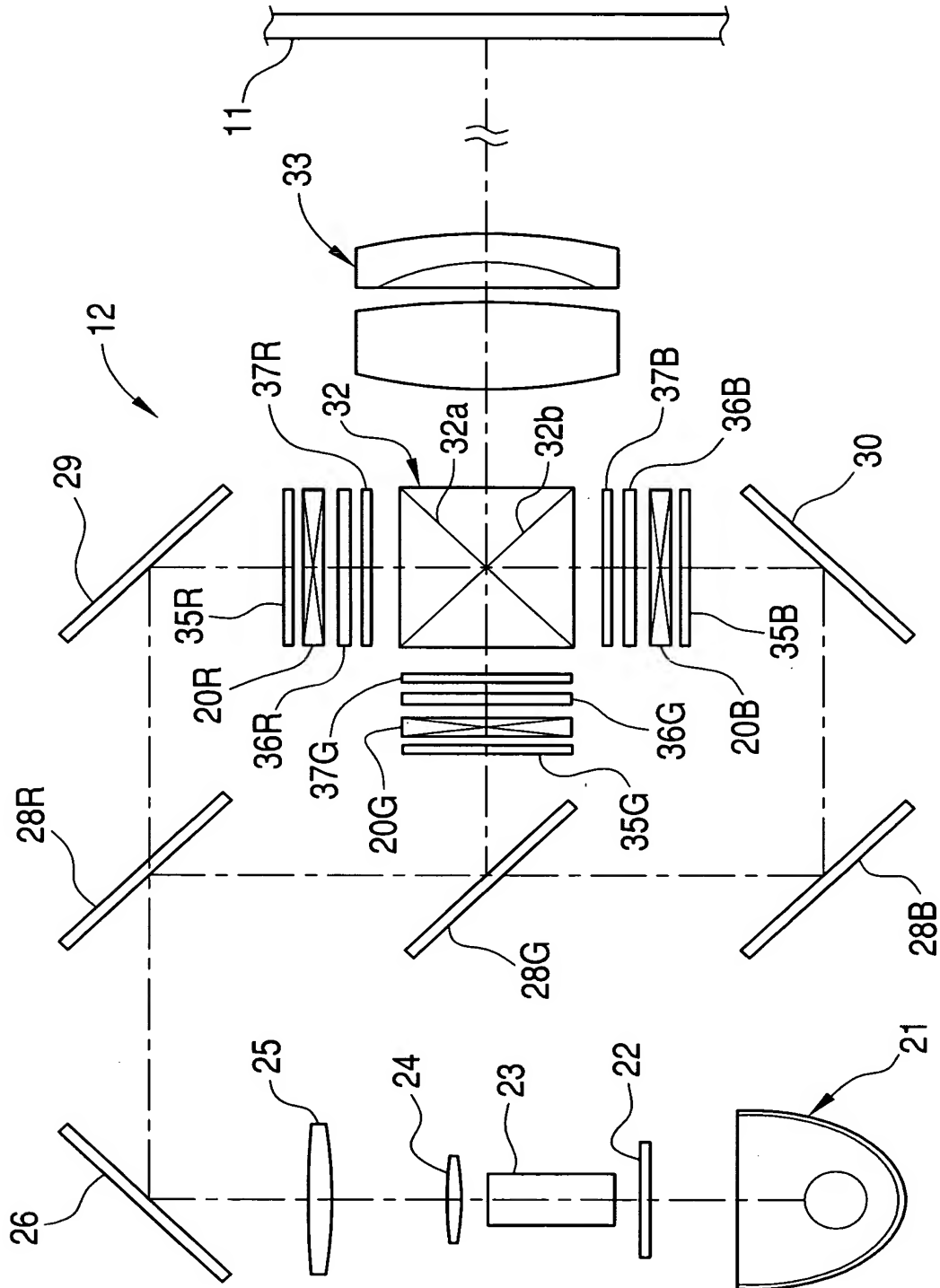


FIG. 7

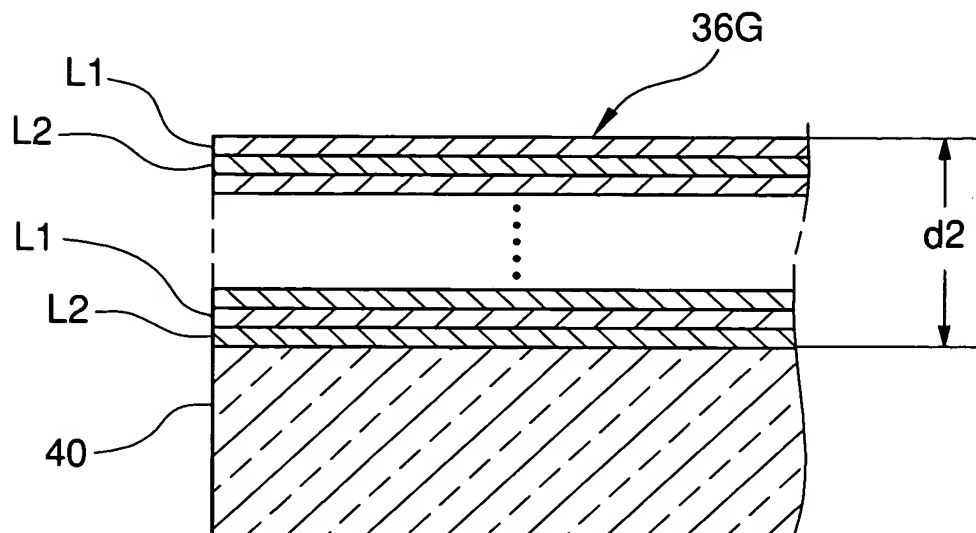


FIG. 8

[TN LIQUID CRYSTAL DEVICE]

λ (nm)	Δn	$d \cdot \Delta n$ ($d=4.5\mu m$)	Re ($0.7 \times d \cdot \Delta n$)
400	0.1360	0.612	0.428
450	0.1310	0.590	0.413
500	0.1270	0.572	0.400
550	0.1240	0.558	0.391
600	0.1210	0.545	0.381
650	0.1190	0.536	0.375
700	0.1180	0.531	0.372

FIG. 9

[RETARDATION COMPENSATION FILM (1): $d=2\mu\text{m}$]

λ (nm)	REFRACTIVE INDEX		N_{TE}	N_{TM}	Δn	$d \cdot \Delta n$ (μm)
	TiO ₂ LAYER	SiO ₂ LAYER				
400	2.5530	1.480	2.188	1.908	0.280	0.561
450	2.4492	1.476	2.114	1.877	0.237	0.474
500	2.3783	1.472	2.064	1.855	0.209	0.418
550	2.3404	1.470	2.037	1.842	0.195	0.390
600	2.3095	1.468	2.015	1.832	0.184	0.368
650	2.2885	1.467	2.001	1.824	0.177	0.354
700	2.2735	1.465	1.990	1.819	0.171	0.342

FIG. 10

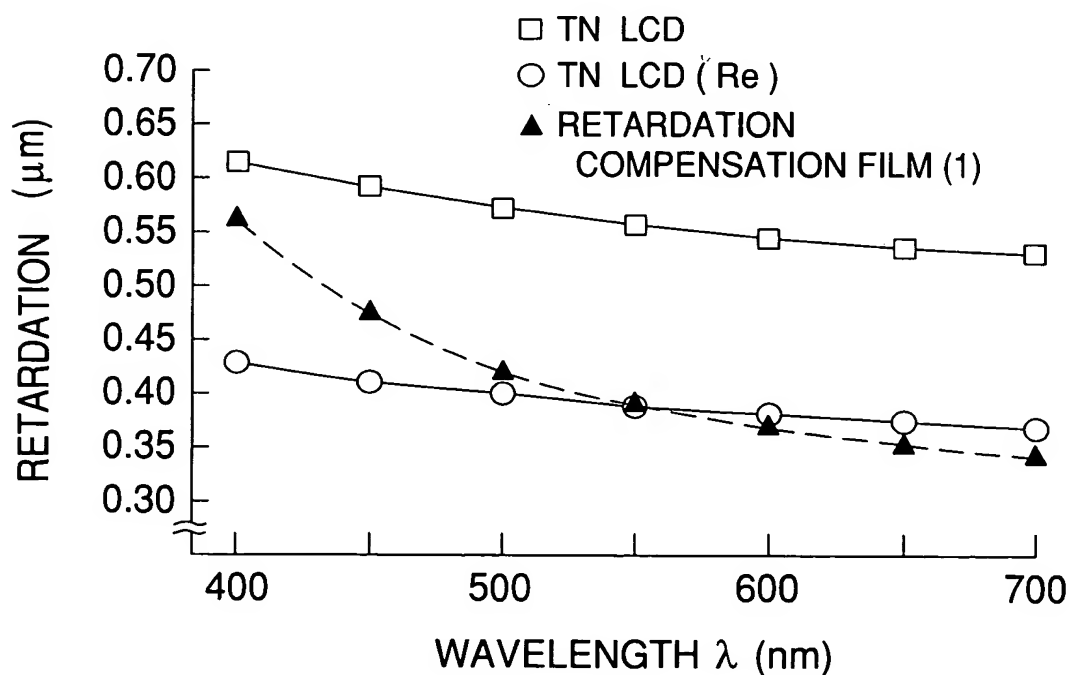


FIG. 11

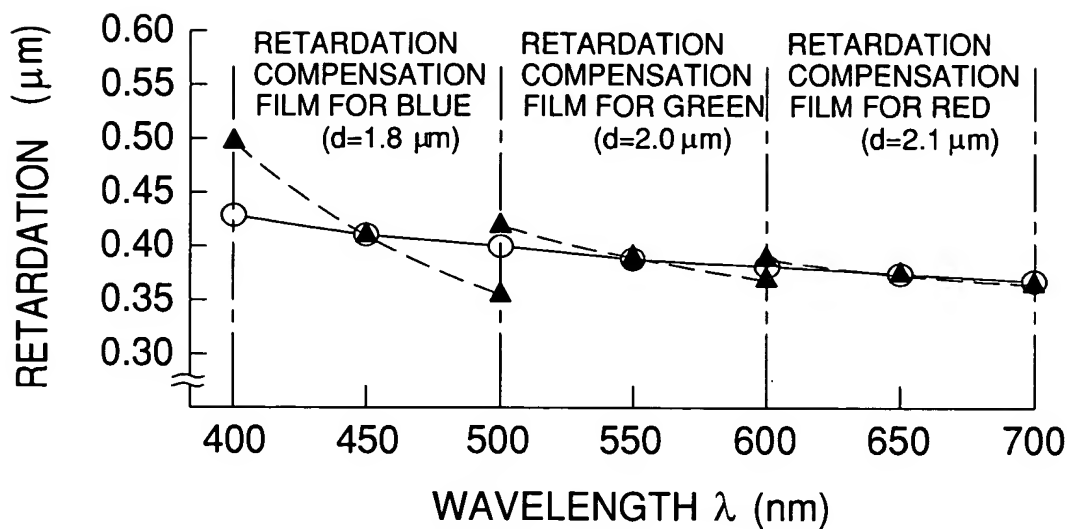


FIG. 12

[EMBODIMENT 1]

λ (nm)	TN LCD (Re)	d (μm)	d · Δn	
400	0.428	1.8	0.504	RETARDATION COMPENSATION FILM FOR BLUE
450	0.413		0.426	
500	0.400		0.376	
500	0.400	2.0	0.418	RETARDATION COMPENSATION FILM FOR GREEN
550	0.391		0.390	
600	0.381		0.368	
600	0.381	2.1	0.386	RETARDATION COMPENSATION FILM FOR RED
650	0.375		0.371	
700	0.372		0.359	

FIG. 13

[ECB LCD]

λ (nm)	Δn	$d \cdot \Delta n$ ($d=4.5\mu m$)
400	0.1360	0.612
450	0.1310	0.590
500	0.1270	0.572
550	0.1240	0.558
600	0.1210	0.545
650	0.1190	0.536
700	0.1180	0.531

FIG. 14

[RETARDATION COMPENSATION FILM (2): $d=2.9\mu m$]

λ (nm)	REFRACTIVE INDEX		N_{TE}	N_{TM}	Δn	$d \cdot \Delta n$ (μm)
	TiO ₂ LAYER	SiO ₂ LAYER				
400	2.5530	1.480	2.188	1.908	0.280	0.812
450	2.4492	1.476	2.114	1.877	0.237	0.687
500	2.3783	1.472	2.064	1.855	0.209	0.606
550	2.3404	1.470	2.037	1.842	0.195	0.566
600	2.3095	1.468	2.015	1.832	0.184	0.534
650	2.2885	1.467	2.001	1.824	0.177	0.513
700	2.2735	1.465	1.990	1.819	0.171	0.496

FIG. 15

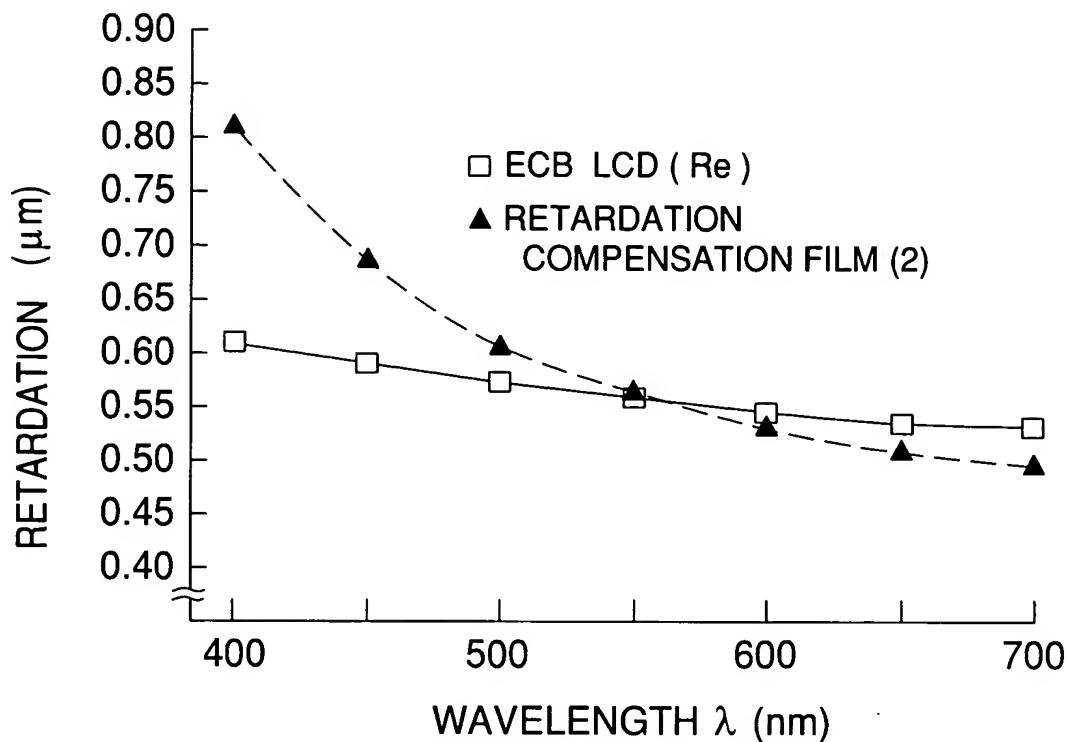


FIG. 16

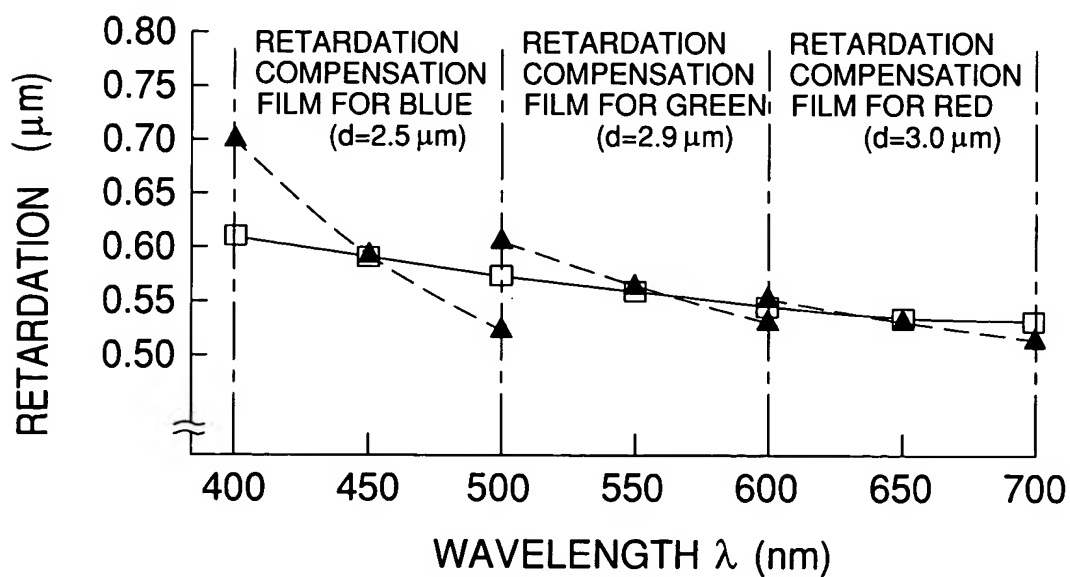


FIG. 17

[EMBODIMENT 2]

λ (nm)	TN LCD (Re)	d (μm)	$d \cdot \Delta n$	
400	0.428	1.8	0.504	RETARDATION COMPENSATION FILM FOR BLUE
450	0.413		0.426	
500	0.400		0.376	
500	0.400	2.0	0.418	RETARDATION COMPENSATION FILM FOR GREEN
550	0.391		0.390	
600	0.381		0.368	
600	0.381	2.1	0.386	RETARDATION COMPENSATION FILM FOR RED
650	0.375		0.371	
700	0.372		0.359	

FIG. 18

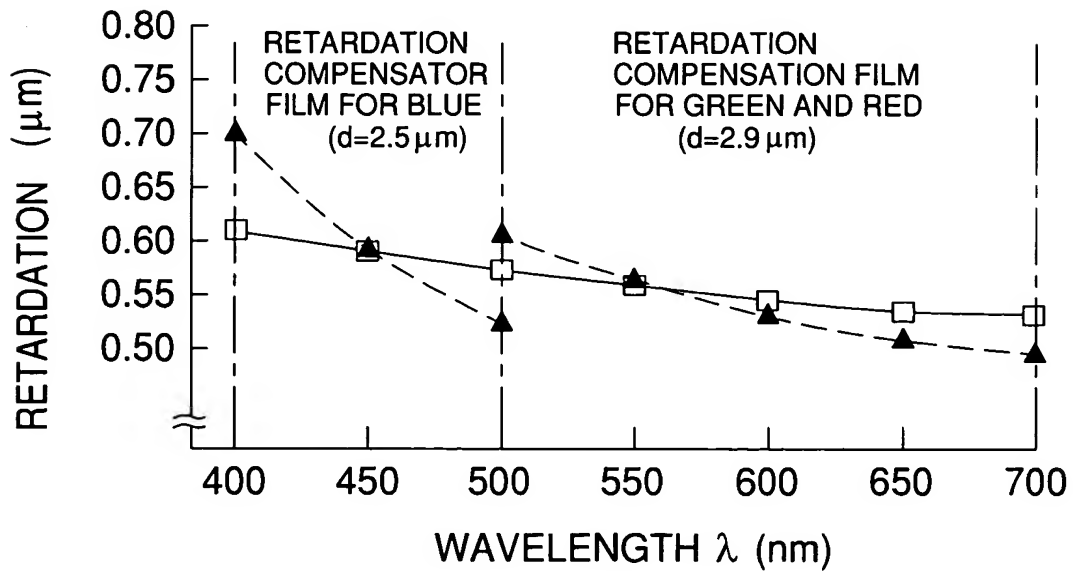


FIG. 19

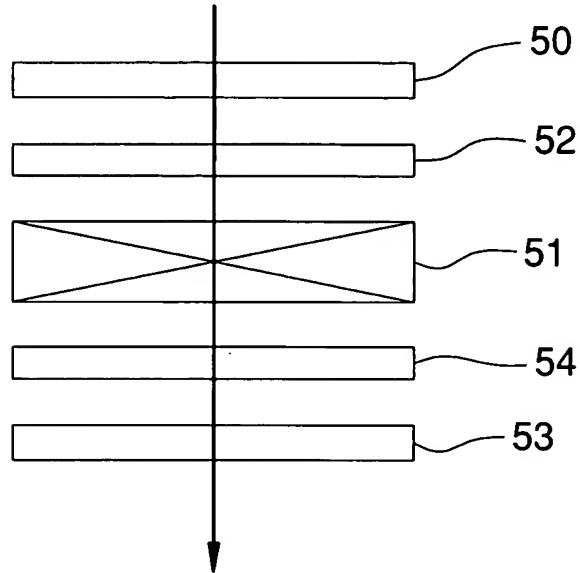


FIG. 20A

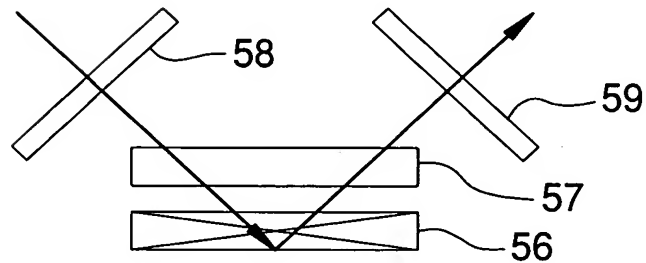


FIG. 20B

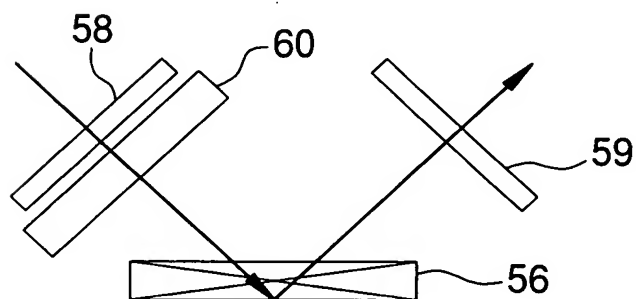


FIG. 21

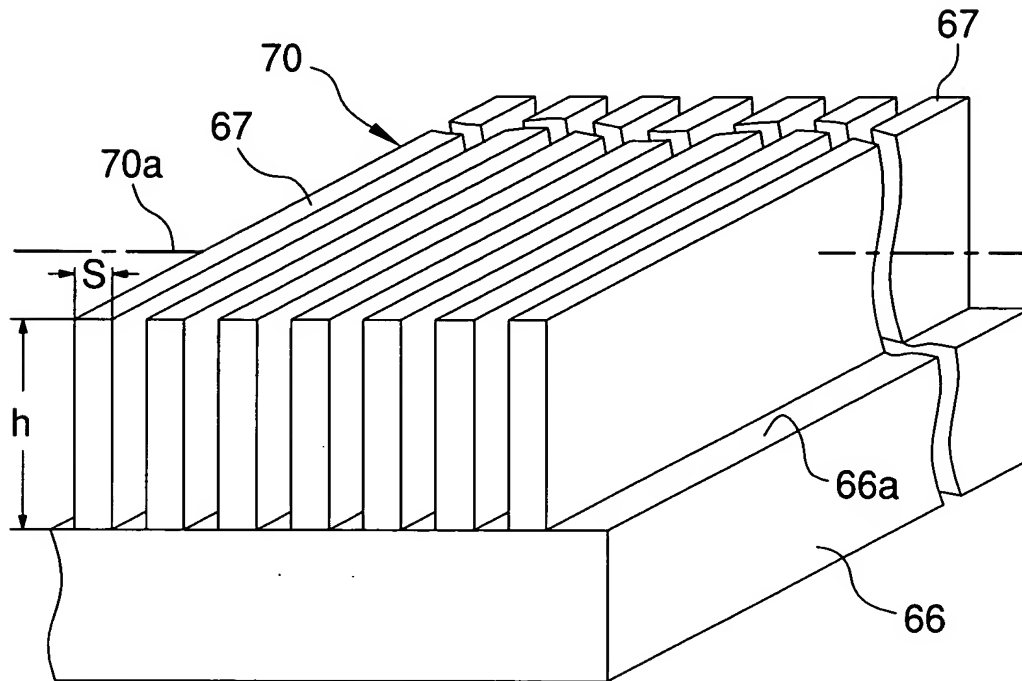


FIG. 22

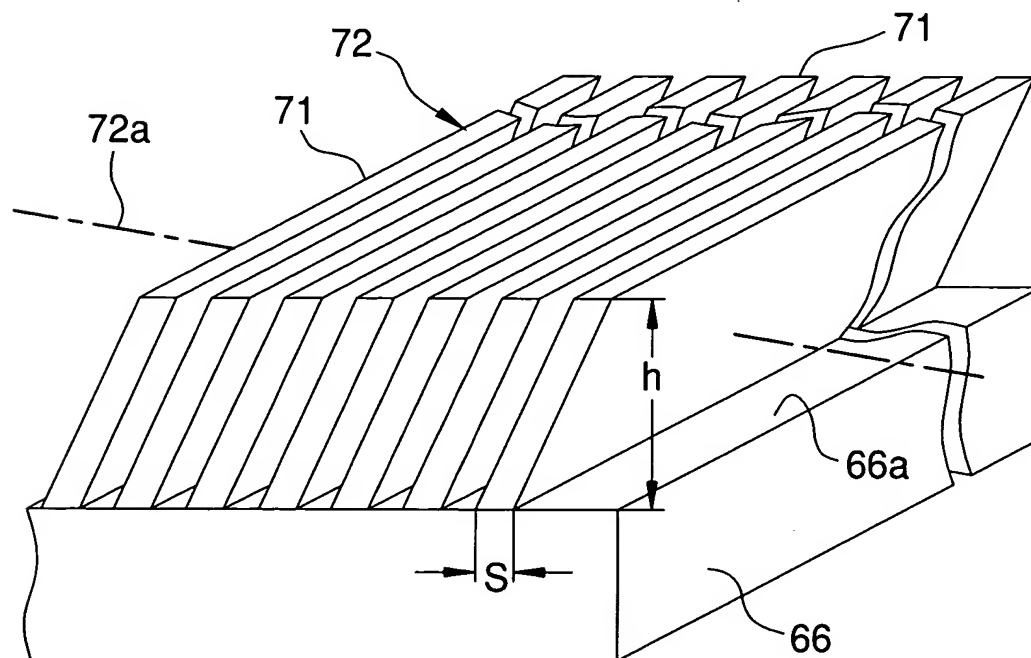


FIG. 23

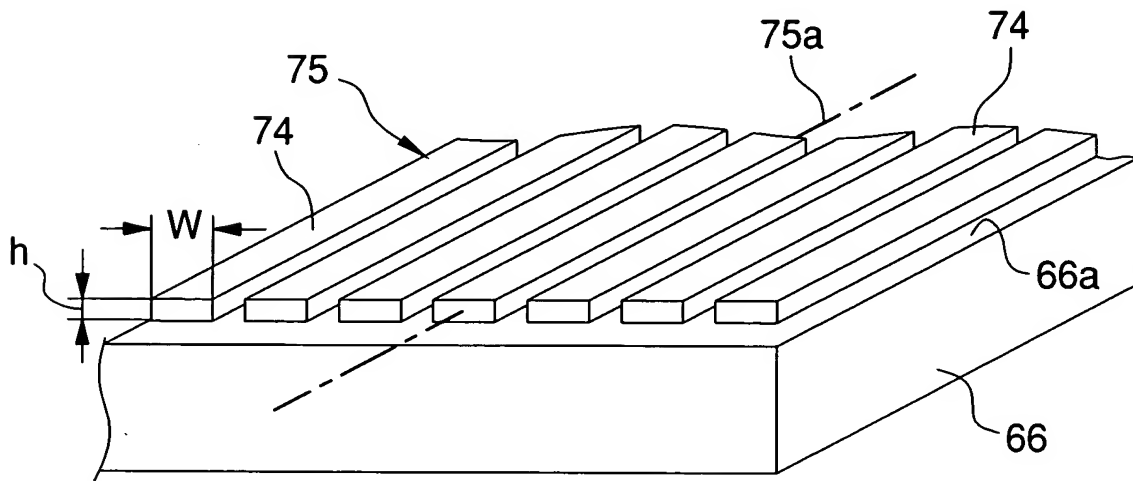


FIG. 24

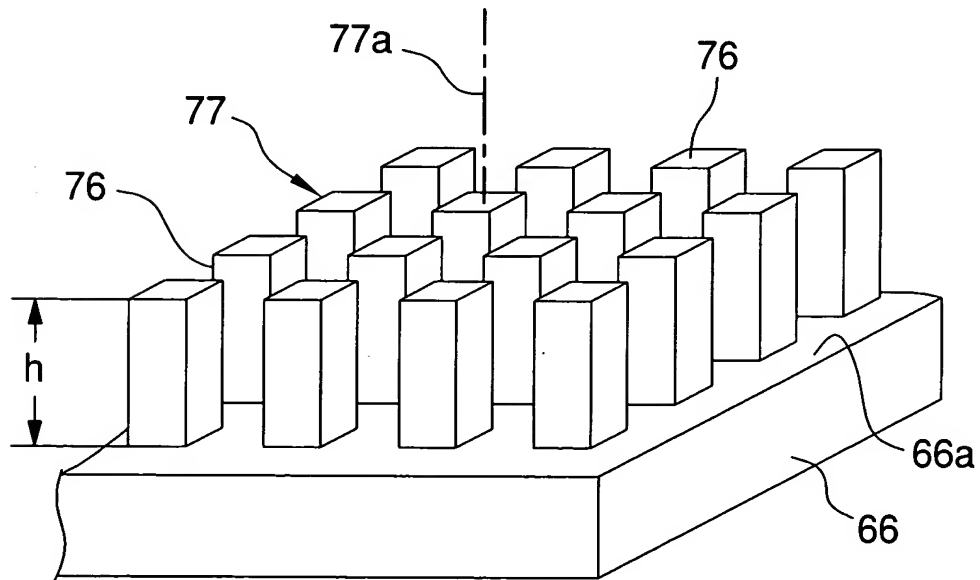


FIG. 25

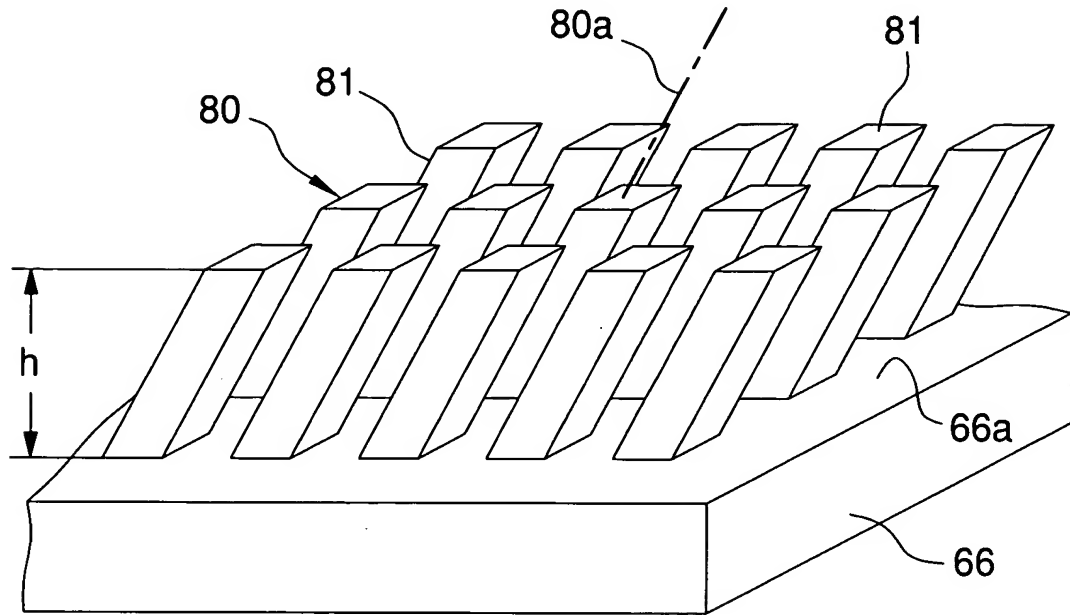


FIG. 26

